



Top Left: Watauga River Water Intake Facility. Bottom Left: General site, slurry wall excavation. Top Right: Site layout and drilling operations. Bottom Right: Geologic Section A-A. Middle: Site plan.

Watauga River Raw Water Intake

Johnson City, TN

Key Issues:

- Highly variable rock condition (Karstic Limestone)
- Voids present in rock
- Very high groundwater table

Mueser Rutledge Consulting Engineers (MRCE) provided geotechnical investigation for a new raw water intake structure on the banks of the Watauga River. Services included a geotechnical investigation of the site, including borings, final report preparation to evaluate the suitability of a proposed minipile or mat foundation alternative for the intake structure. In addition, MRCE provided construction services including shop drawing review of cofferdam and minipiles and inspection services.